



Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2018-03-05-09 Date: 08-03-2018
Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address : Shettyhalli Sub Division, BBMP, Bangalore.
Project Name : Construction of RCC drains 7th and 9th cross Kalyana Nagara in Ward no.13 Shettyhalli sub division.
Agency : Sri. Nagesh.S, Shruti Samupadha Constructions No. 19, 1st Floor, 6th Cross, SRS Road, 1st Stage, Bengaluru-560086
Customer's Reference : EE/DD/WO/247/17-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 05-03-2018
Sample ID No : 2018-03-05-09 /01
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6
Date of test : 06-03-2018

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	3.15	—
2	Finess by Air permeability method (m ² /kg, Min)	288	225m ² /kg, Min
3	Density (gm/cc)	3.14	—
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	160 minutes	Not less than 30 minutes
6	Final Setting time	280 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.3mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
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Samples will be disposed after 90 days from the date of issue of test certificate



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Sig.....
Date.....
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Quality Manager

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****End of Report****

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-03-05-09 **Date:** 08-03-2018
Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address : Shettyhalli Sub Division, BBMP, Bangalore.
Project Name : Construction of RCC drains 7th and 9th cross Kalyana Nagara in Ward no.13 Shettyhalli sub division.
Agency : Sri. Nagesh.S, Shruti Samupadha Constructions No. 19, 1st Floor, 6th Cross, SRS Road, 1st Stage, Bengaluru-560086
Customer's Reference : EE/DD/WO/247/17-18
Source of Sample : Sample supplied by Agency
Sample condition : Satisfactory
Date of Receipt : 05-03-2018
Sample ID No : 2018-03-05-09 /02(a)
Sample Type : 40mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 05-03-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	1215	1215	8.1	91.9	90-100
3	20 mm	5325	6540	43.6	56.4	30-70
4	10 mm	6250	12790	85.3	14.7	10-35
5	4.75 mm	1638	14428	96.2	3.8	0-5
6	Pan	572	15000	100.0	0	---

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Certificate No.: TC- 5548

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-03-05-09 Date: 08-03-2018
Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address : Shettyhalli Sub Division, BBMP, Bangalore.
Project Name : Construction of RCC drains 7th and 9th cross Kalyana Nagara in Ward no.13 Shettyhalli sub division.
Agency : Sri. Nagesh.S, Shruti Samupadha Constructions No. 19, 1st Floor, 6th Cross, SRS Road, 1st Stage, Bengaluru-560086
Customer Reference : EE/DD/WO/247/17-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 05-03-2018
Sample ID No : 2018-03-05-09 /02(b)
Sample Type/ Size : 20mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 05-03-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	429	429	8.6	91.4	90-100
3	10 mm	2440	2869	57.4	42.6	25-55
4	4.75 mm	1833	4702	94.0	6.0	0-10
5	Pan	298	5000	100	0	-

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2018-03-05-09 Date: 08-03-2018

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Construction of RCC drains 7th and 9th cross Kalyana Nagara in Ward no.13 Shettyhalli sub division.

Agency : Sri. Nagesh.S, Shruti Samupadha Constructions No. 19, 1st Floor, 6th Cross, SRS Road, 1st Stage, Bengaluru-560086

Customer's Reference : EE/DD/WO/247/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-03-2018

Sample ID No : 2018-03-05-09 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 05-03-2018

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	25	25	2.5	97.5	90-100	90-100	90-100	95-100
3	2.36 mm	127	152	15.2	84.8	60-95	75-100	85-100	95-100
4	1.18 mm	275	427	42.7	57.3	30-70	55-90	75-100	90-100
5	600 micron	137	564	56.4	43.6	15-34	35-59	60-79	80-100
6	300 micron	190	754	75.4	24.6	5-20	8-30	12-40	15-50
7	150 micron	154	908	90.8	9.2	0-10	0-10	0-10	0-15
8	Pan	92	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-03-15-09 Date: 19/03/2018
Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address : Shettyhalli Sub Division, BBMP, Bangalore.
Project Name : Construction of RCC drains 7th and 9th cross Kalyana Nagara in Ward no.13 Shettyhalli sub division.
Agency : Sri. Nagesh.S, Shruti Samupadha Constructions No. 19, 1st Floor, 6th Cross, SRS Road, 1st Stage, Bengaluru-560086
Customer's Reference : EE/DD/WO/247/17-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 15-03-2018
Sample ID No : 2018-03-15-09 /01
Customer ID : Drain Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete CL5
Date of test : 19/03/2018

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Concrete	M20	12/03/2018	19/03/2018	151.92 X 149.56 X 150.33	22721	8.434	398.7	17.5	18.0
2	Drain Concrete	M20	12/03/2018	19/03/2018	149.37 X 151.12 X 149.76	22573	8.377	417.5	18.5	
3	Drain Concrete	M20	12/03/2018	19/03/2018	151.54 X 150.73 X 150.06	22841	8.031	408.5	17.9	

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Customer's Reference : EE/DD/WO/247/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-03-2018

Sample ID No : 2018-03-15-09 /03

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/03/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Concrete	M20	12/03/2018	19/03/2018	149.28 X 149.03 X 150.80	22247	8.425	405.4	18.2	18.2
2	Drain Concrete	M20	12/03/2018	19/03/2018	150.88 X 149.74 X 149.28	22592	7.989	414.5	18.3	
3	Drain Concrete	M20	12/03/2018	19/03/2018	150.32 X 150.14 X 151.66	22568	8.069	405.5	18.0	

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